



KEJURUTERAAN MEKANIKAL

KAMPUS TEKNOLOGI

MALAYSIA

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اونیورسیتی تیکنیکل مالیزیاء ملاک

UNIVERSITY OF MALAYA
FAKULTI KEJURUTERAAN MEKANIKAL



FAKULTI KEJURUTERAAN MEKANIKAL



UNIVERSITI TEKNIKAL MALAYSIA MELAKA



UNIVERSITI TEKNIKAL MALAYSIA MELAKA



KELUA

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اوتونوم سیتی تیکنیکل مالایسیا ملاکا

UNIVERSITI TEKNIKAL MALAYSIA MELAKA



UNIVERSITI TEKNIK MALAYSIA MELAKA



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اوتیونر سیرینجیل ملیسیا ملاک



157

MODELING AND FABRICATION OF PROTECTIVE MASK WITH HIGH COMPLEXITY PATTERN USING LOW-COST ADDITIVE MANUFACTURING DESIGN TOOL AND SYSTEM

Enhancing Classroom Engagement Through Web-Based Interactive Tools (2017)

MLO

CONCLUSION

UNIVERSITI
TEKNIKAL
MALAYSIA
MELAKA

UNIVERSITI
TEKNIKAL
MALAYSIA
MELAKA

UNIVERSITI
TEKNIKAL
MALAYSIA
MELAKA



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اوبیونیرسیٹی ملیسیا ملاک
UNIVERSITI TEKNIKAL MALAYSIA MELAKA



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

وینومر سیدی تیکنیکل مالاک

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

SEMI-SOLID FORMING TEMPERATURE AND HEAT TREATMENT ON MECHANICAL PROPERTIES OF MG-AL-ZN ALLOY (AZ91D) FOR AUTOMOTIVE APPLICATION

M.B.M. ISMAIL*, N.F. BAZILAH, A. LUHAT, M.H. IDRIS, M.S. SALLEH, W.F.F.W. AI

INTRODUCTION

Mg-AL-Zn alloy is one of the most widely distributed elements in nature. It is a lightweight metal with a high strength-to-weight ratio. It is widely used in automotive applications. The alloy is formed by the combination of magnesium, aluminum, and zinc. The alloy is formed by the combination of magnesium, aluminum, and zinc. The alloy is formed by the combination of magnesium, aluminum, and zinc.

METHODOLOGY

1. Billet undergoes a forming process at a temperature of 510°C, 530°C, 560°C, 510°C, 530°C, 560°C.

2. 14 Heat Treatment: 14 Heat Treatment (14 HT) is performed on the formed samples. The heat treatment is performed at 140°C for 24 hours.

RESULTS AND DISCUSSION

The mechanical properties of the alloy are affected by the forming temperature and heat treatment. The ultimate tensile strength (UTS) and hardness (HRB) of the alloy increase with increasing forming temperature and heat treatment.

CONCLUSION

The mechanical properties of the alloy are improved by increasing the forming temperature and heat treatment.

Process Parameter	Forming Temperature
Reference Billet	510°C
14 Heat Treatment	510°C
Induction heating + Forming	530°C
Induction heating + Forming	560°C
Induction heating + Forming + 14 HT	510°C
Induction heating + Forming + 14 HT	530°C
Induction heating + Forming + 14 HT	560°C

ULTIMATE TENSILE STRENGTH (MPa) VS SAMPLES

HARDNESS (HRB) VS SAMPLES

UTeM, UTM, ME 2019

Comparative study of modeling method of synthetic-jet-assisted mixing

Hong Mao Hui, Cheng Sheng, FKM, UTeM

INTRODUCTION

The objective of this study is to compare the modeling results of synthetic-jet-assisted mixing using different methods.

OBJECTIVE

The objective of this study is to compare the modeling results of synthetic-jet-assisted mixing using different methods.

METHODOLOGY

The methodology involves the use of different modeling methods to simulate the mixing process.

RESULTS & DISCUSSION

The results show that the modeling results are significantly affected by the choice of modeling method.

CONCLUSION

The study concludes that the choice of modeling method is crucial for accurate simulation results.



اونيوورسيٲى مليسىيا ملاك
UNIVERSITI TEKNIKAL MALAYSIA MELAKA



روزنامه سبوری نیوز سبوری

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





اونیورسیتی ملایسیا مالاکا
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

LUPUS
HT/03/19(2) 19/3/19

MERD'19

THE 6TH MECHANICAL
ENGINEERING RESEARCH DAY

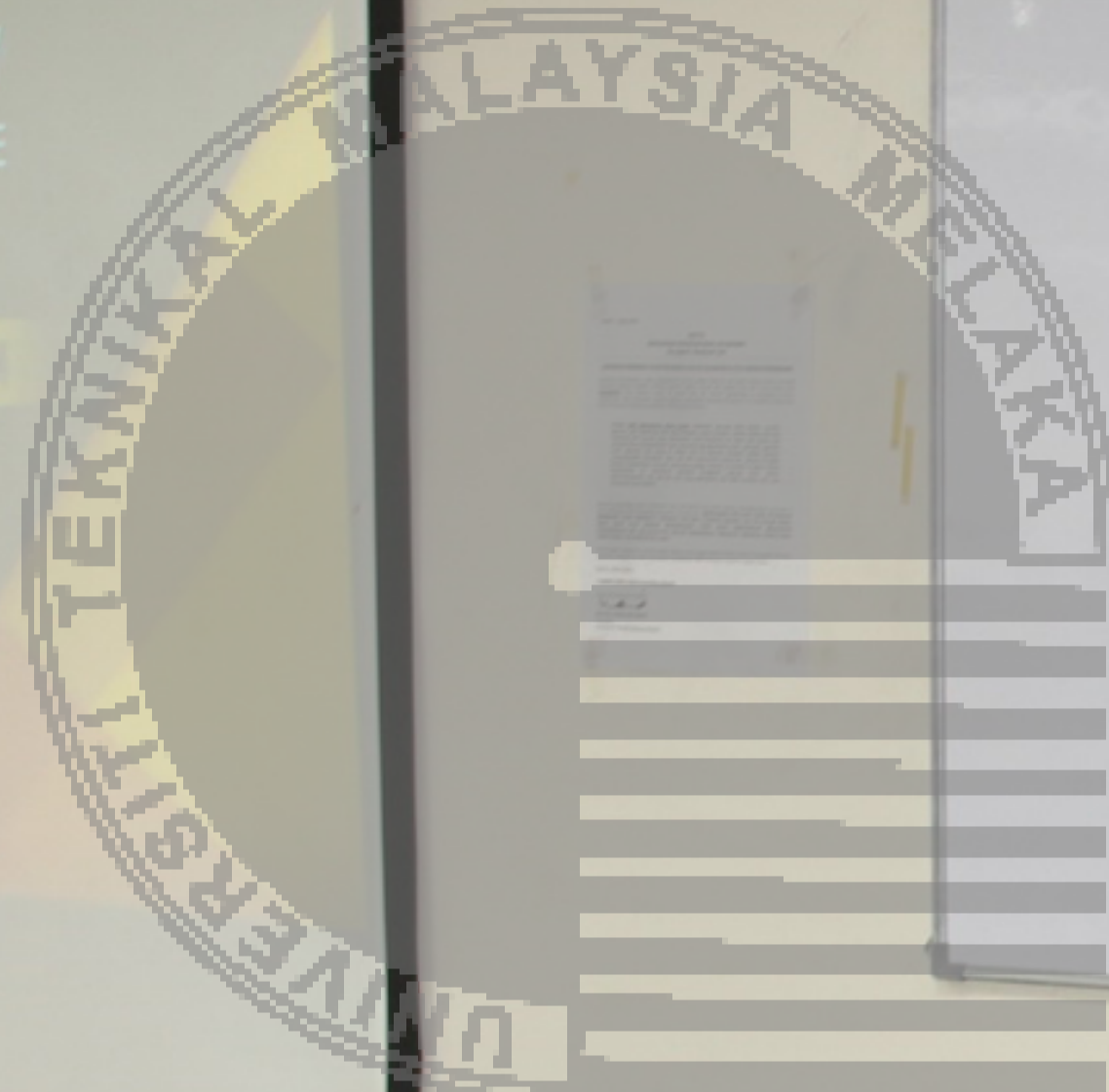
► IDEA ► INSPIRE ► INNOVATE

<http://merd19.utem.edu.my>

31 July 2019 | Kampus Teknologi UTeM

Jointly organized by
Fakulti Kejuruteraan Mekanikal
Centre for Advanced Research on Energy

Co-organized by
Sekolah Tinggi Teknologi Stenberg
Performance of Rolling Bearings Laboratory
Shanghai University



UTeM

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

LUPUS
11/03/19 (2)
19/3/19



اوتيوئر سيني تيكنيكل مليسيا ملاك

UNIVERSITI TEKNIKAL MALAYSIA MELAKA



RUZTAMREEN



اونيوورسيٲى ٲيٲنيٲيكل ماليسيا ملاك

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

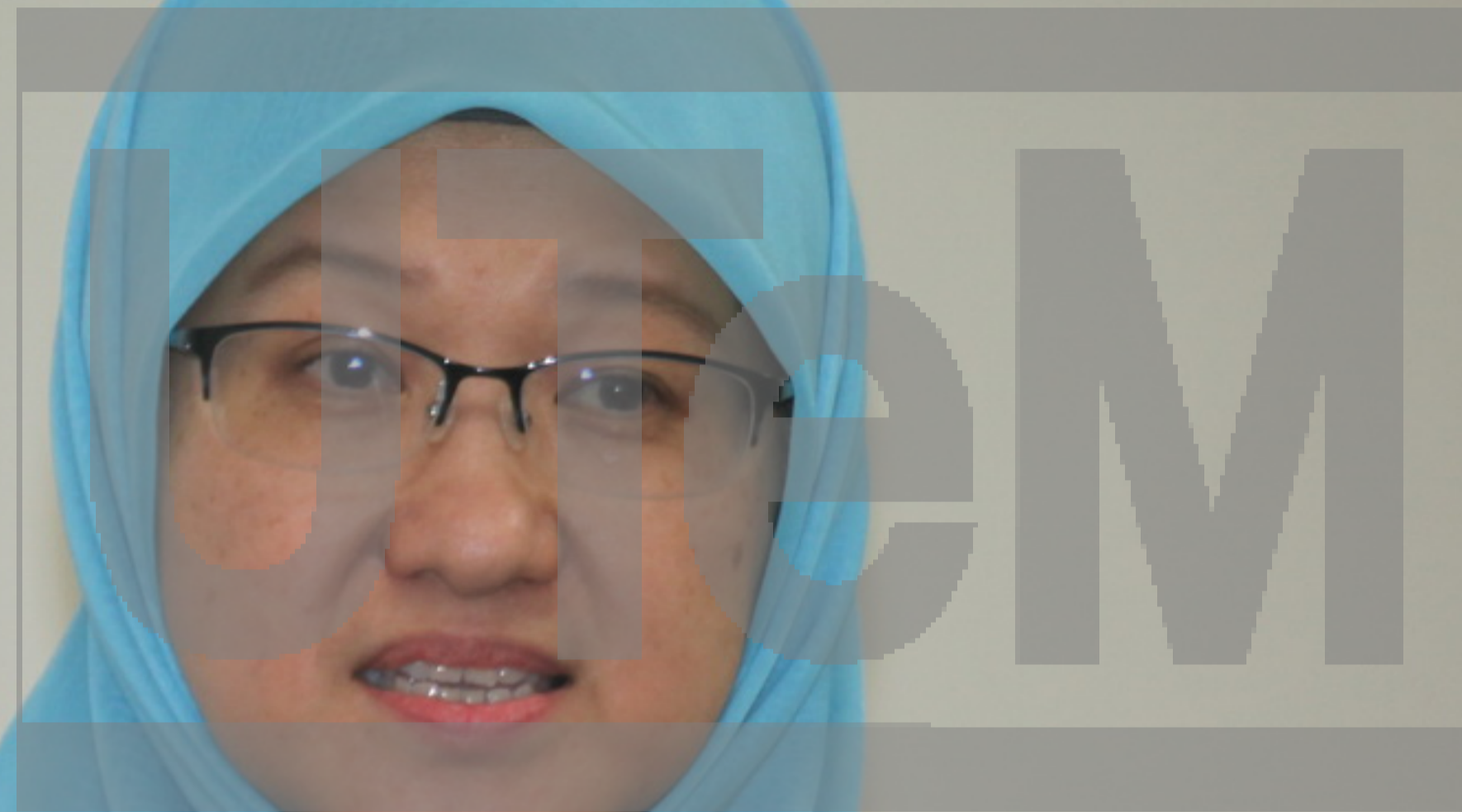
UTeM



اوتیور سیتی بیکن کل ملیسیا مالاک

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UTeM



اونیورسیتی تیکنیکل ملیسیا ملاک

UNIVERSITI TEKNIKAL MALAYSIA MELAKA



اونيوورسي تيكنيكل ماليسيا ملاك

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UTeM



اوتنبرسي تنيكيني مالايسيا

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

